

PAT-NO: JP409005419A

DOCUMENT-IDENTIFIER: JP 09005419 A

TITLE: GPS RECEIVING DEVICE

PUBN-DATE: January 10, 1997

INVENTOR-INFORMATION:

NAME

KAWAZOE, TOSHIHIRO

YOKOI, YUKIO

SUWA, YORIHISA

ASSIGNEE-INFORMATION:

NAME

JAPAN RADIO CO LTD

COUNTRY

N/A

APPL-NO: JP07156558

APPL-DATE: June 22, 1995

INT-CL (IPC): G01S005/14, G01C021/00

**ABSTRACT:**

**PURPOSE:** To provide a GPS receiving device capable of detecting the abnormal state of a GPS satellite without the time delay until the health information of the satellite is received.

**CONSTITUTION:** A satellite time/satellite frequency measurement section 32 measures the satellite time and Doppler frequencies, and a position measurement calculation section 38 calculates the user position data and GPS satellite position data from the orbit data collected through a navigation data demodulation section 30 and an orbit data collection section 34 and the satellite time and Doppler frequencies measured by the satellite time/satellite frequency measurement section 32. A real-time clock section 40 measures the

time of a GPS receiving device 20, and a satellite time judgment section 42 compares the satellite time with the time measured by the real-time clock section 40. If the satellite time coincides with the time measured by the real-time clock section 40 or the difference lies within a prescribed range, the GPS satellite is referred to be normal for position measurement. If not, the GPS satellite signal is not employed.

COPYRIGHT: (C)1997,JPO